

# Mommy, Help My Laundry!

The proposal for laundry guidance provider  
Team 8







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- Existing Services

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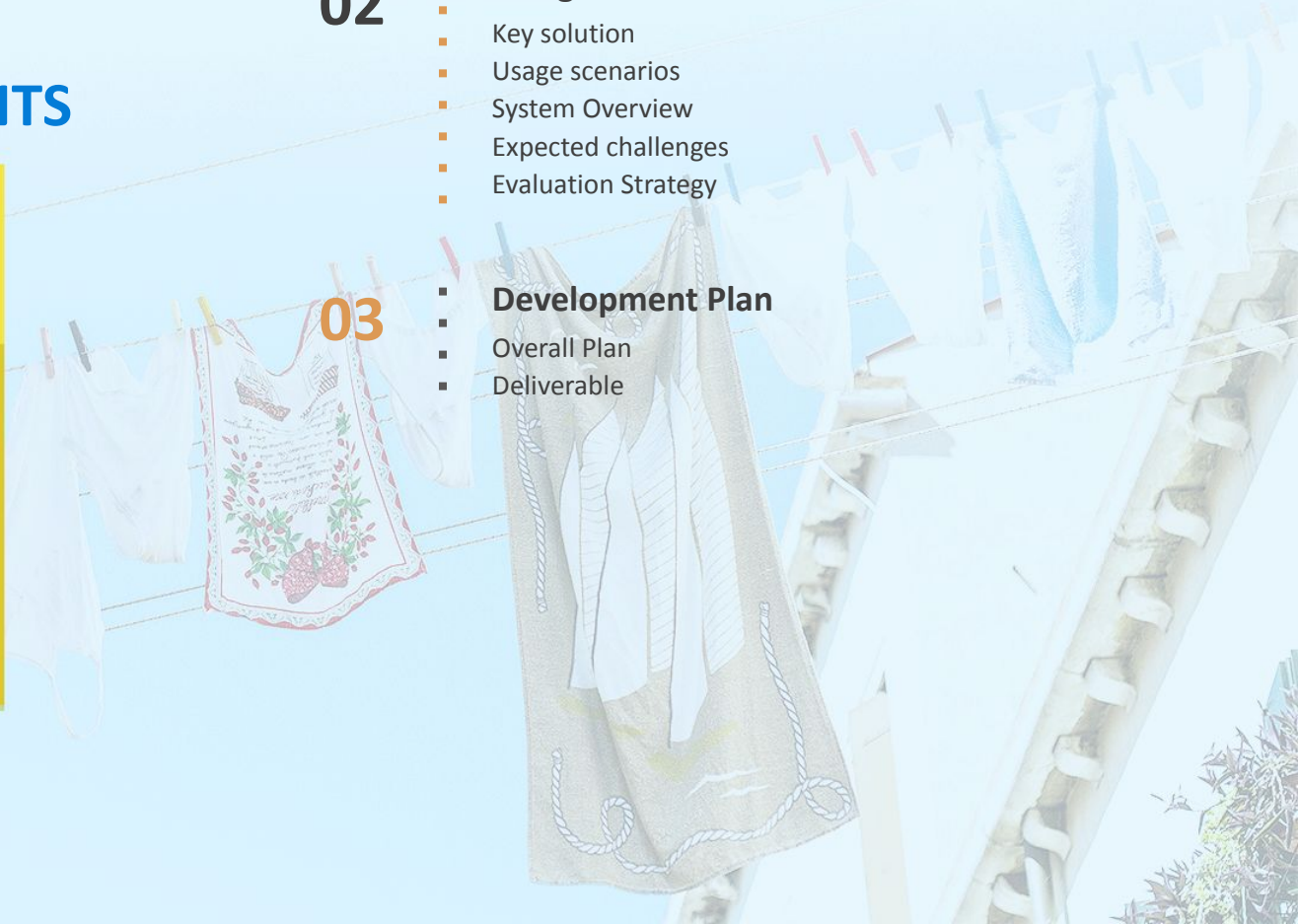
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01

# Motivation

- 1.The Laundry Phobia
- 2.Existing Services

# The Laundry Phobia

***When you leave your mom and begin to live alone,***

- *Laundry becomes horrible duty*
- *Too many things to consider*
  - *Fabrics, colors etc.*
- *Too confused care labels*
  - *P1) What does it mean?*





# The Laundry Phobia

***Be Careful!***

*Your cloth might be Antman*

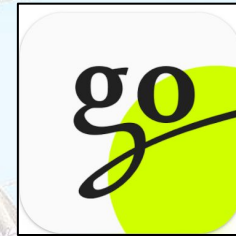


*or chameleon*



### ***Laundry Service Applications***

- *Full service including collecting, laundry, dry cleaning and delivery of clothes*
  - *e.g. Laundry Go*



### ***No Application for Poor Students***

- *Too expensive services for poor students*
- *No guidance for people who want to do laundry by themselves*



## 02 Design

- 1.Key Solution
- 2.Usage Scenarios
- 3.System Overview
- 4.Expected Challenges
- 5.Evaluation Strategy



## Provide Proper Guidances of Clothes



30°C ● ✕ □  
WASH SEPARATELY  
PROFESSIONAL  
DRY CLEAN  
RECOMMENDED



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WASH SEPARATELY  
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Recognize image of care labels and provide guidances

Service laundry guidance of  
pre-processed clothes even without  
labels



# Usage Scenarios

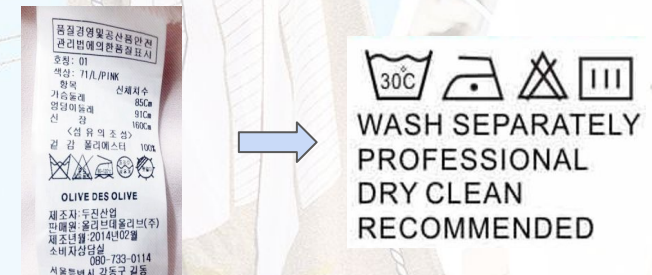
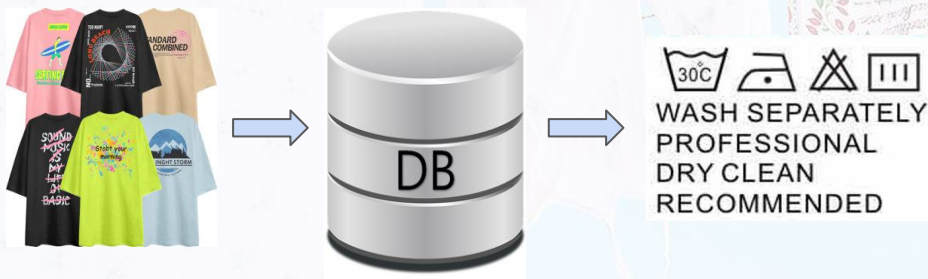
## 1. Register Cloth Information

- Take a picture of care label and cloth



## 2. Get Laundry Guidance

- From registered lists
- From label image



# System Overview

## 1. Input

### a. Image

- i. Instant input from Camera
- ii. Input from existing image file

### b. User Selection

- i. Selection among registered clothes

## 2. Recognizers

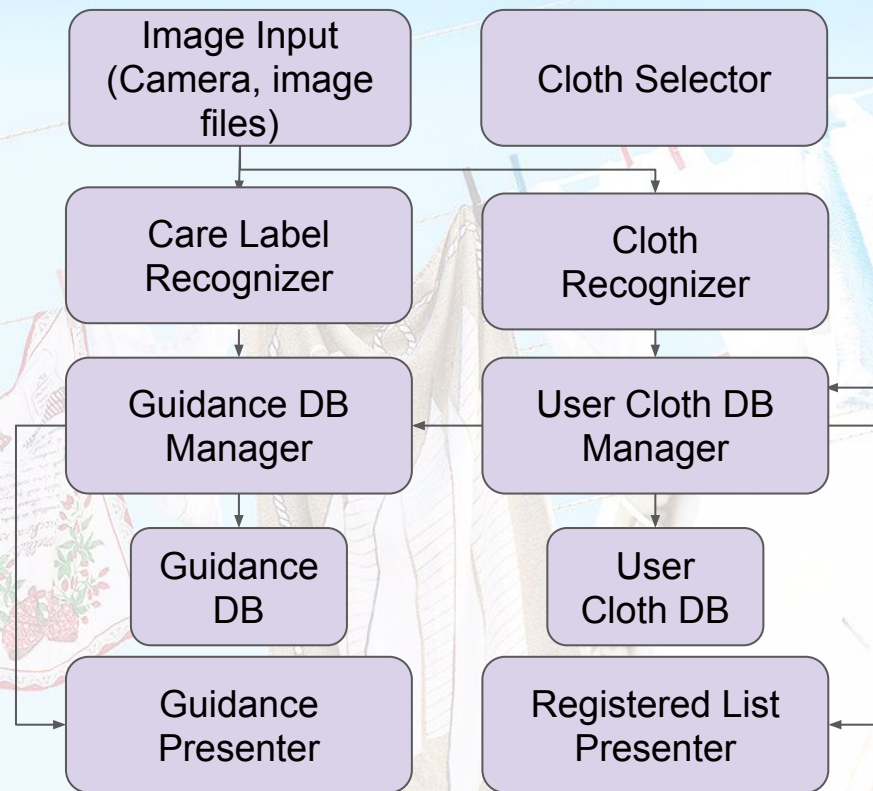
- a. Extract guidance or cloth IDs from input image (pre-trained by us)

## 3. DB Managers

- a. Provide stored information from indexes

## 4. Presenters

- a. Print out information to screen





# Expected Challenges

1. *Recognizing/extracting laundry symbols in various types of care labels*
2. *Building a database for laundry guidance*
3. *Developing a model to recognize clothes image*



# Evaluation strategy



## **Accuracy**

*High accuracy to recognize symbols, images*



## **Latency**

*Low response time for recognition and guidance*



## **Durability**

*Data persistence on shutdown or crash*



## ***How accurate our app to***

- *Guide proper information according to each laundry symbol*
- *Match clothes images to laundry symbols stored in DB*

## ***How much time our app takes to***

- *Recognize laundry symbols and clothes images*
- *Guide how to laundry*

## ***Can our app preserve information after shutdown or crash***





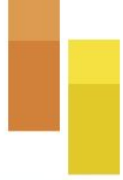
03

## Development Plan

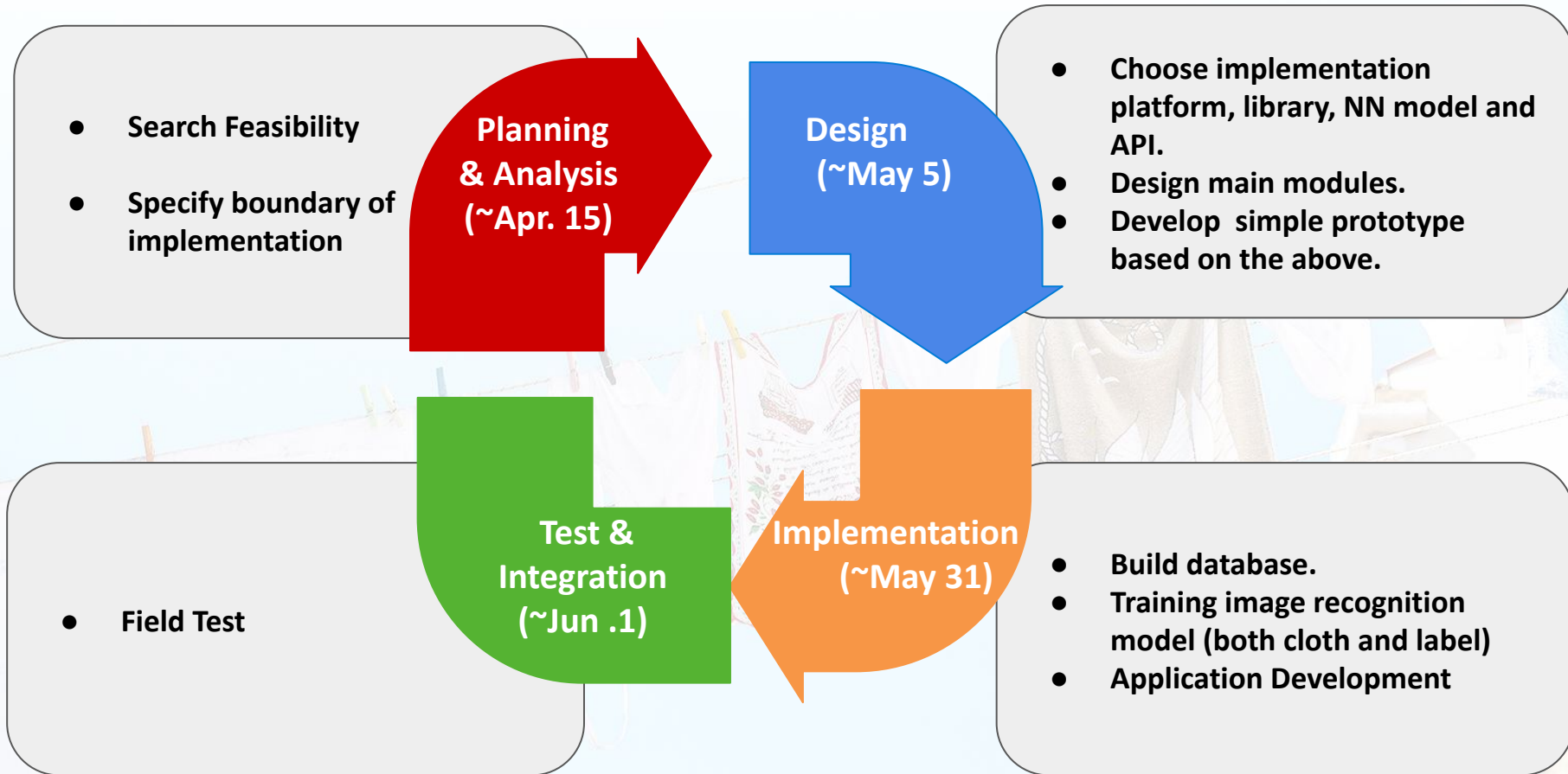
1.Overall Plan

2.Deliverable





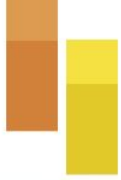
# Overall Project Plan



# Our Prototype would be like...







# Final Deliverable and success criteria

1. *Laundry guide application*
2. *Recognition & give correct laundry guide*
  - clothing image recognition
  - care label recognition

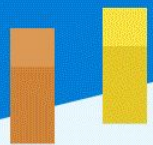




04

Q&A





THANK YOU

